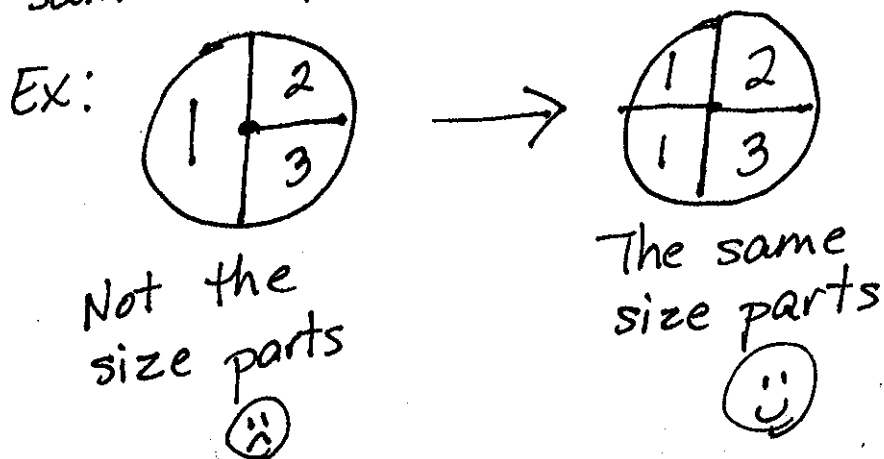


4-11-12

FINDING PROBABILITY - P

STEPS:

- ① Put the # of the sample space on the bottom. (since this is like a fraction, be sure the parts are the same size)



- ② Put the # of what you're looking for on the top.
- ③ Simplify if needed

Ex: $P(\text{landing on } 2) = \frac{1}{4}$

$$P(\text{Landing on } 1) = \frac{2}{4} = \frac{1}{2}$$

Ex: Roll a # cube

$$P(2) = \frac{1}{6}$$

$$P(9) = \frac{0}{6}$$

$$P(\text{odd } \#) = \frac{3}{6} = \frac{1}{2}$$

$$P(\text{prime } \#) = \frac{3}{6} = \frac{1}{2}$$

** If you have to find the P of an activity multiple times, just write the P of the event then multiply times the # of times

Ex: How many times can you expect to land on 3 if you roll a # cube 10 times.

$$P(3) = \frac{1}{6}$$

$$3 \quad \frac{1}{6} \times \frac{10^5}{1} = \frac{5}{3} = 1 \frac{2}{3} \text{ times}$$

** If you have to find the P of an activity multiple times, just write the P of the event then multiply times the # of times

Ex: How many times can you expect to land on 3 if you roll a # cube 10 times.

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$$3 \frac{1}{6} \times \frac{10^5}{1} = \frac{5}{3} = 1 \frac{2}{3} \text{ times}$$